

### 60W Open frame Switching Power Supplies For I.T.E.

#### Description:

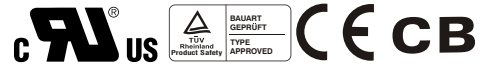
The SBU58 series of products, open frame constructed, AC/DC switching mode power supplies provide 60 Watts of continuous output power. They are suited for use in portable equipments and many other applications. All models meet CISPR-22 class B emission Limits and are designed to comply with new CE requirements. All units are 100% burned in and tested.



#### Features:

- Wide Input Voltage 90 to 264 VAC, 47 to 63 Hz
- Internal EMI filter
- Input connector mates with Molex housing 35977-0300 and Molex 35922 series crimp terminal
- Single Output
- Output Voltage Available From 5 VDC Thru 48 VDC
- Input Surge Current, Over Voltage and Over Load protection
- Over Voltage Protection (Crowbar Design)
- Class I
- 2 year warranty

#### Safety Approvals:



#### Electrical Characteristics:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Vin	Input Voltage	Operating Voltage	90		264	VAC
fin	Input Frequency		47		63	Hz
Po	Output Power Range	Vin=90 to 264VAC	0		60	W
Vo	Output Voltage Range		See rating chart			V
Io	Output Current Range		See rating chart			A
Iil	Input Current (Low Line)	Io=Full load, Vin=115VAC			1.2	A
Iih	Input Current (High Line)	Io=Full load, Vin=230VAC			0.6	A
Irl	Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC		12	15	A
Irh	High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC		26	30	A
Eff	Efficiency	Io=Full Load, Vin=230VAC	80		90	%
REG-i	Line Regulation	Io=Full Load		0.5	1	%
REG-o	Load Regulation	Vin=230VAC		3	5	%
OVP	Over Voltage Protection		112		132	%
OCP	Over Current Protection		110		150	%
Ttr	Time of Transient Response	Io=Full Load to Half Load, Vin=100VAC			4	mS
Thold	Hold-Up Time	Io=Full Load, Vin=110VAC	12			mS
Ts	Start Up Time	Io=Full Load, Vin=100VAC	0.3	1	2	S
Vrn	Ripple & Noise (Peak to Peak)	Full Load, Vin=90VAC		0.5	1	%
Ilk	Safety Ground Leakage Current	Io=Full Load, Vin=240VAC		0.4	0.75	mA
TC	Temperature Coefficient	All output	-0.04		0.04	%/°C
Pno	No-Load Power Consumption	No load, Vin=240VAC	0.1		0.5	W

#### Environmental :

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Toper	Operating Temperature		0		70	°C
Tstg	Storage Temperature		-40		85	°C
Hr	Relative Humidity		5		95	%
MTBF	Operating Temperature at 25 °C, Calculated per MIL-HDBK-217F		0.1M			Hrs
Pd	Derate linearly from 100% load at 40 °C to 50% load at 70 °C					

# SBU58 SERIES

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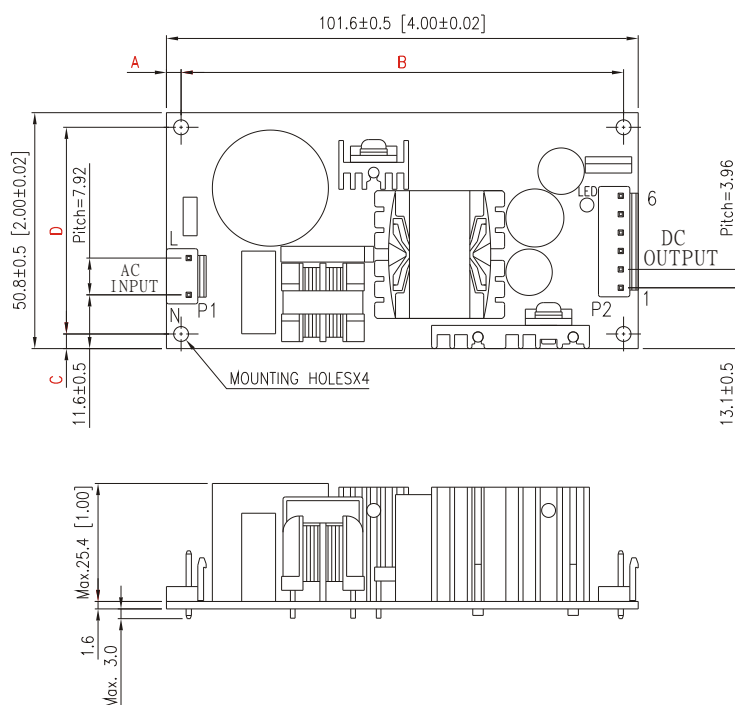
### Safety Specifications:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V <sub>ps</sub>	Dielectric Withstanding Voltage for Primary to secondary	Primary to secondary	4242			VDC
V <sub>pg</sub>	Dielectric Withstanding Voltage for Primary to Ground	Primary to ground	2121			VDC
R <sub>is</sub>	Isolation Resistance	Test Voltage=500VDC	50			M Ω
CISPR	EMI requirements for CISPR-22	V <sub>in</sub> =220VAC	B			CLASS
FCC	EMI requirements for FCC PART-15	V <sub>in</sub> =110VAC	B			CLASS

### Output Voltage And Current Rating Chart ( Single Output ) :

Model Number	Output Voltage	Output Current	Total Regulation	Maximum Output Power
SBU58-102	5 ~ 6 VDC	8.00 ~ 6.66 A	5%	40W
SBU58-103	6 ~ 8 VDC	8.00 ~ 6.00 A	5%	48W
SBU58-104	8 ~ 11 VDC	6.87 ~ 5.00 A	5%	55W
SBU58-105	11 ~ 13 VDC	5.45 ~ 4.61 A	5%	60W
SBU58-106	13 ~ 16 VDC	4.23 ~ 3.43 A	5%	60W
SBU58-107	16 ~ 21 VDC	3.75 ~ 2.85 A	5%	60W
SBU58-108	21 ~ 27 VDC	2.85 ~ 2.22 A	3%	60W
SBU58-109	27 ~ 33 VDC	2.22 ~ 1.81 A	3%	60W
SBU58-110	33 ~ 40 VDC	1.81 ~ 1.50 A	3%	60W
SBU58-111	40 ~ 48 VDC	1.50 ~ 1.20 A	2%	60W

### Mechanical Specifications: :



### PIN CHART

PIN	1	2	3	4	5	6
MODEL	1	2	3	4	5	6
SBU58-1XX	OUT	OUT	OUT	RTN	RTN	RTN

#### Note:

1. Dimensions are shown in mm.
2. Weight: 140gs approx.
3. Input connector mates with Molex housing 35977-0300 and Molex 35922 series crimp terminal

P/N: SBU58-XXX-H3  
or SBU58-XXX-H4

	H3	H4
MOUNTING HOLES	3.2±0.5	4.0±0.5
A	3.15±0.5	4.3±0.5
B	95.3±0.5	93.0±0.5
C	3.15±0.5	4.3±0.5
D	44.5±0.5	42.8±0.5

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